

Estimation element database 4

No	Type	Estimation element	Acquired valu	Unit
1		Material	SEHC-P	
2	Cutting	Length	160	mm
3	Cutting	Width	25	mm
4	Cutting	Number of corners		
5	Plate	Length	160	mm
6	Plate	Width	25	mm
7		Number of chamfers	0	
8		Plate thickness	3. 2	mm
9		Lot		
10		Material	SEHC-P	
11		Entire length		mm
12	Common	Cutting/no-cutting		
13	Common	Weight	0. 0988	kg
14	Common	Finished surface		
15	Square pipe	Plate thickness	3. 2	mm
16	Square pipe	Width	25	mm
17	Square pipe	Height	20	mm
18	Square pipe	Length	160	mm
19		Coefficient for number of corners		
20	Bending	Length	160	mm
21	Bending	Width	25	mm
22	Bending	Plate thickness	5. 2	mm
23	Bending	Number of occasions	3	
24	Bending	Mold-changing unit time	60	S

FIG. 2

	Process setup standards									
	Process	Material	Plate thickness	Work in- formation	Number of	Bending				
N	P punching	SEHC	3. 2	General						
N	P drilling	SEHC-P	3. 2	General	0					
Р	PB bending									
丄										
FIG 3										

Estimation

	ESTIMATION
Process	Calculation formulas
NP (punching)	• SU=0. 0 • TT=
NP(drilling)	 SU=0.4 upper mold type×unit time +upper mold type×unit time TT=mold type×unit time +number of holes×unit time
PB bending	 SU=mold handling [mold length, length limit] + (number of occasions-1) × slide time TT=(unit time [plate thickness, length, material]) × coefficient [angle] × handling coefficient
PB bending	 Men-houss=bending treatment time [plate thickness, length, width] + (number of occasions-1) × mold change unit time

Plate Physical unit table thickness | Physical unit table Bending-treatment time [plate thickness, length, width] | Wielth→

			Wieitr	1						
	Length	100	200	300	400	500	700	1000	1300	1500
3. 2	300		0. 004			0.004	0.005			
3. 2	600		0. 005			0.006	0.007	0.008		
3. 2	1000		0. 007			0. 007	0.009	0.017		
3. 2	1500		0. 008			0. 013	0. 018	0. 018		0. 025
3. 2	2000		0. 010			0. 020	0. 020	0. 026		0. 032
4. 0	300		0. 006		0.007		0.008			
4. 0	600		0.007		0. 007		0.013			
4. 0	1000		0. 008		0.012		0.017	0.019		
4. 0	1500		0. 009		0.018		0. 022	0. 029	0. 029	0. 030
4. 0	2000		0. 014		0. 020		0. 031	0. 032	0. 035	0. 049
6. 0	300	0. 008	0. 009	0. 009						
6.0	600	0. 010	0. 010	0. 011		0. 020	0. 020			
6.0	1000	0. 010	0.019	0. 021		0. 025	0. 033	0. 035		
6.0	1500	0. 012	0. 022	0. 025		0. 036	0. 036	0. 041		
6.0	2000	0. 025	0. 025	0. 040		0. 040	0. 045	0. 075		
9. 0	300	0.009	0. 009	0. 009						
9.0	600	0. 010	0. 014	0. 021		0. 024	0. 035			
9. 0	1000	0. 010	0. 014	0. 026		0. 034	0. 036	0.042		
9. 0	1500	0. 023	0. 026	0. 038		0. 038	0. 050	0.090		
9.0	2000	0. 026	0. 042	0. 040		0. 050	0.092	0. 169		

FIG. 5

	erial unit		Purchase unit price		
Materia	Plate	Unit(¥/kg)	Figure number	Unit(¥)	
SEHC-P		78	#6WLN8SZN	2.9	
			#6WLN6SZN	2.0	1
	Process ra		#PS8-20SCR	1.0	
	=10.000¥/h		#PN16SZN	100.0	
)

FIG. 6

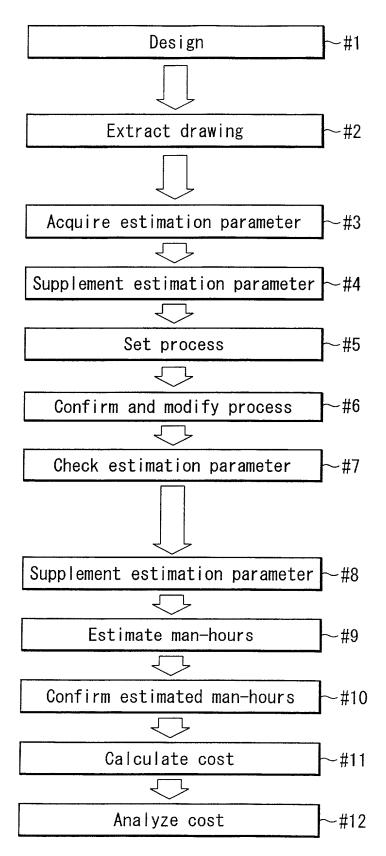
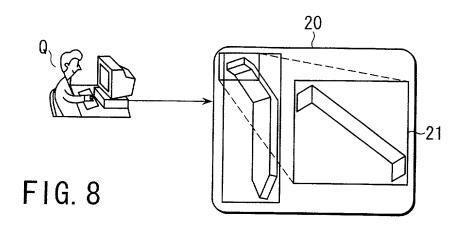


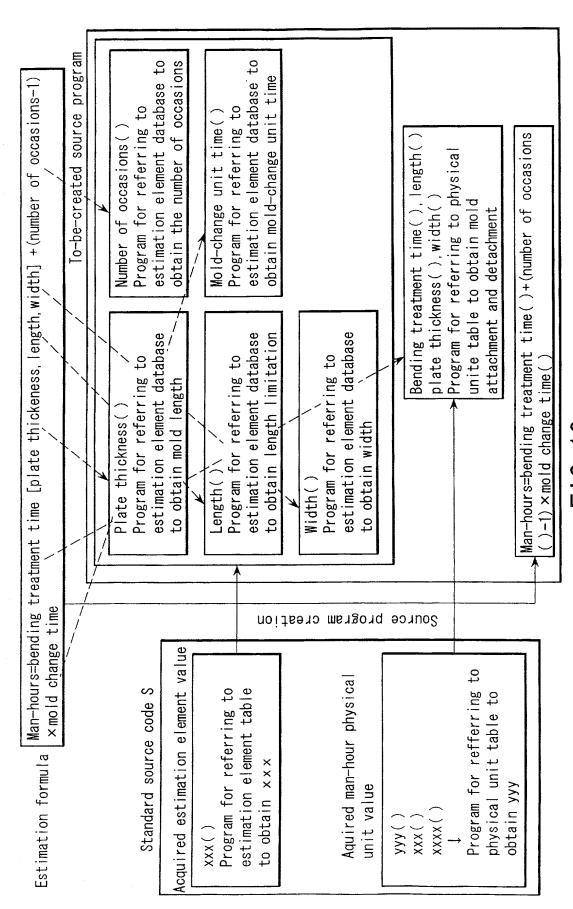
FIG. 7

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	Component configuration table							
No	Figure number	Article	name	Material	Weight			
1	1 × 26-03405*B	STAND	0					
2	$4 \times 26 - 03407^*A$	PLATE	0	KPS-1	1. 190			
3	3×26-03410*B	PLATE	0					
	3 × 26-03410\$*B	PLATE	1	SSCC-P	4. 570			
	*6WLN8SZN	NUT	2					
4	$3 \times 26 - 03411^*A$	SHAFT	1	SS41B-D	3.060			
5	$3 \times 26 - 03416^*B$	PATE	0					
	3×26-03416\$B	PLATE	1	SSCC-P	2. 380			
	*6WLN8SZN	NUT	4					
6	3×26-03413	PLATE	1	SSCC-P	4. 000			
7	4×26-03417*B	PLATE	1	SSCC-P	0. 140			
8	2×26-03414*B	PLATE	0					
	2×26-03414\$*B	PLATE	1	SSCC-P	13. 330			
	*6WLN8SZN	NUT	4					
	*6WLN6SZN	NUT	1					
9	*PS8-20SCR	SCREW	0					
10	1 × 26-03406*B	FRAME	0					
	1 × 26-03406\$	FRAME	1					
	*PN16SZN	NUT. PRESS	3 2					
	PN16SZN	NUT. PRESS	3 2					

FIG. 9



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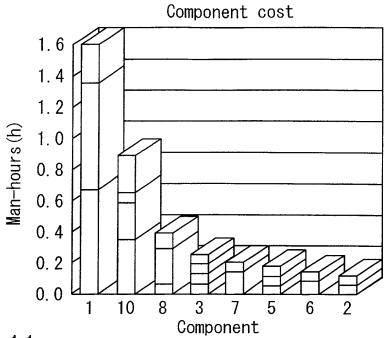


FIG. 11

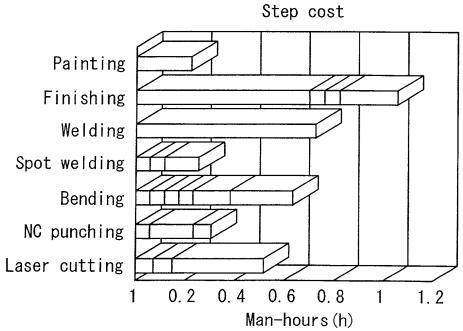


FIG. 12

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